				H	ydric soils	criteria	
Map symbol and map unit name	Component	Hydric	ydric Local landform c		Meets saturation criteria	Meets flooding criteria	
Aa:							
AASTAD-FLOM COMPLEX	AASTAD FLOM	No Yes	 flood plain	2B3	YES	NO	NO
	FORMAN TONKA	No Yes Yes	pothole	2B3,3	YES	NO NO	YES
AbA: ARVILLA SANDY LOAM, 0	VALLERS	No	flood plain	2B3	YES	NO 	NO
TO 2 PERCENT SLOPES	FORDVILLE	No					
AbB: ARVILLA SANDY LOAM, 2		No					
TO 6 PERCENT SLOPES	FORDVILLE	No					
AbC: ARVILLA SANDY LOAM, 6	ARVILLA	No					
TO 9 PERCENT SLOPES	FORDVILLE	No					
BaE:	SIOUX	No					
BARNES-BUSE EXTREMELY STONY LOAMS, 9 TO 40 PERCENT SLOPES	BARNES	No					
	BUSE ARVILLA	No No					
	PARNELL	Yes	pothole	2B3,3	YES	NO	YES
	RENSHAW SIOUX	No No					
	TONKA	Yes	pothole	2B3,3	YES	NO	YES
-1	VALLERS	Yes	flood plain	2B3	YES	NO	NO
BbB: BARNES-SVEA LOAMS, 1 TO 6 PERCENT SLOPES	BARNES	No					
	SVEA PEEVER	No No					
	TONKA	Yes	pothole	2B3,3	YES	NO	YES
	VALLERS HEIMDAL	Yes No	flood plain	2B3	YES	NO 	NO
BbC:	LEIMDAL	INO					
BARNES-SVEA LOAMS, 3 TO 9 PERCENT SLOPES	BARNES	No					
	SVEA	No					
	BUSE HEIMDAL	No No					
	TONKA	Yes	pothole	2B3,3	YES	NO	YES
	VALLERS	Yes	flood plain	2B3	YES	NO	NO
BbD: BARNES-SVEA LOAMS, 4 TO 15 PERCENT SLOPES	BARNES	No					
	SVEA	No					
	CASTLEWOOD TONKA VALLERS	Yes Yes Yes	flood plain pothole flood plain	2B3 2B3,3 2B3	YES YES YES	NO NO NO	NO YES NO
Bc: CUBDEN SILTY CLAY	CUBDEN	No					
LOAM	BADGER TONKA	Yes Yes	flood plain pothole	2A 3,2B3	YES YES	NO NO	NO YES

All mapunits are displayed regardless of hydric status and are listed in alpha-numeric order by mapunit symbol. The "Hydric Soils Criteria" columns indicate the conditions that caused the mapunit component to be classified as "Hydric" or "Non-Hydric". These criteria are defined in "Hydric Soils of the United States"(USDA Miscellaneous Publication No. 1491, June, 1991). See the "Criteria for Hydric Soils" endnote todetermine the meaning of these columns. Spot symbols are footnoted at the end of the table.

Mary and all and				H	ydric soils	criteria	
Map symbol and map unit name	Component	Hydric		Hydric criteria code	Meets saturation criteria	Meets flooding criteria	
Bd:							
BROOKINGS SILT LOAM	BROOKINGS	No					
	LISMORE	No	flood ploin	2B3			
	VALLERS TONKA	Yes Yes	flood plain	2B3,3	YES YES	NO NO	NO YES
BeF:		100	Foomore	223,3	120	110	125
BUSE-FORMAN LOAMS, 25 TO 40 PERCENT SLOPES	BUSE	No					
10 10 12102111 220122	FORMAN	No					
	AASTAD	No					
	LADELLE	No					
	RENSHAW	No					
	SIOUX	No					
	TONKA VALLERS	Yes Yes	pothole flood plain	2B3,3 2B3	YES YES	NO NO	YES NO
BfD:	VALLERS	165	liood plain	203	155	110	INO
BUSE-FORMAN-AASTAD LOAMS, 4 TO 15 PERCENT SLOPES	BUSE	No					
	AASTAD	No				l	
	FORMAN	No					
	TONKA	Yes	pothole	2B3,3	YES	NO	YES
	HATTIE	No					
	PEEVER	No					
Da:	VALLERS	Yes	flood plain	2B3	YES	NO	NO
DIVIDE LOAM	DIVIDE	No					
DIVIDE EGIET	MARYSLAND	Yes	flood plain	2B3	YES	NO	NO
	RAUVILLE	Yes	flood plain	2B3,4	YES	YES	NO
	RENSHAW	No					
Ob:							
CASTLEWOOD SILTY CLAY		Yes	flood plain	2B3	YES	NO	NO
	BEARDEN	No					
7-7.	LADELLE	No					
EaA: EGELAND FINE SANDY LOAM, 0 TO 2 PERCENT	EGELAND	No					
SLOPES	SWENODA	No					
EaB:							
EGELAND FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES	EGELAND	No					
	MADDOCK	No					
	SWENODA	No					
	HEIMDAL	No					
Ec: ESTELLINE SILTY CLAY LOAM	ESTELLINE	No					
	RENSHAW	No					
?a:							
FLOM CLAY LOAM	FLOM	Yes	flood plain	2B3	YES	NO	NO
	AASTAD	No	notholo	202 2	VEC		VEC
	TONKA VALLERS	Yes Yes	pothole flood plain	2B3,3 2B3	YES YES	NO NO	YES NO
FbA:	פאמחחני	169	TIOOU PIAIII	رىك	1 22	140	110
FORDVILLE LOAM, 0 TO 2 PERCENT SLOPES	FORDVILLE	No					
7 LEKCENI SPOLES	DIVIDE	No					
		110	I		1		

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M				I	Hydric soils	criteria	
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	
FcB: FORDVILLE-RENSHAW LOAMS, 2 TO 6 PERCENT SLOPES	FORDVILLE	No					
	RENSHAW DIVIDE	No No No				 	
FdA:	SIOUX	I NO					
FORMAN-AASTAD LOAMS, 0 TO 2 PERCENT SLOPES	FORMAN	No					
510115	AASTAD PEEVER TONKA	No No Yes	 pothole	 2B3,3	 YES	 NO	 YES
	VALLERS	Yes	flood plain	2B3 / 3	YES	NO	NO
FdB: FORMAN-AASTAD LOAMS, 1 TO 6 PERCENT SLOPES	FORMAN	No					
510115	AASTAD TONKA	No Yes	 pothole	3,2B3	YES	NO	 YES
	BUSE FLOM PARNELL	No Yes Yes	flood plain	2B3 3,2B3	YES YES	NO NO	NO YES
	PEEVER	No					
FdC:	VALLERS	Yes	flood plain	2B3	YES	NO	NO
FORMAN-AASTAD LOAMS, 3 TO 9 PERCENT SLOPES	FORMAN	No					
	AASTAD	No					
	BUSE	No					
	FLOM	Yes	flood plain	2B3	YES	NO	NO
	TONKA	Yes	pothole	2B3,3	YES	NO	YES
	VALLERS PARNELL	Yes Yes	flood plain	2B3 2B3,3	YES YES	NO NO	NO YES
FdD:	PARNELL	ies	pornore	2B3,3	IES	NO	152
FORMAN-AASTAD LOAMS, 4 TO 15 PERCENT SLOPES	FORMAN	No					
	AASTAD	No					
	BUSE	No					
	PARNELL	Yes No	pothole	2B3,3	YES	NO 	YES
	SIOUX VALLERS	Yes	flood plain	2B3	YES	NO	NO
	FLOM	Yes	flood plain	2B3 2B3	YES	NO NO	NO
	RENSHAW	No					
FeC:							
FORMAN-AASTAD EXTREMELY STONY COMPLEX, 0 TO 9 PERCENT SLOPES	FORMAN	No					
	AASTAD	No					
	BUSE	No					
	FLOM	Yes	flood plain	2B3	YES	NO	NO
	TONKA PARNELL	Yes Yes	pothole pothole	2B3,3 2B3,3	YES	NO NO	YES
	LEWINDTH	1 162	I POCITOTE	4DJ,3	YES	NO	YES

Man grmbal and				Н	ydric soils	criteria	
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
FgC: FORMAN-BUSE LOAMS, 6 TO 9 PERCENT SLOPES	FORMAN	No					
10 J FERCENT SHOFES	BUSE	No					
	AASTAD FLOM TONKA VALLERS	No Yes Yes Yes	flood plain pothole flood plain	2B3 2B3,3 2B3	YES YES YES	NO NO NO	NO YES NO
FgE: FORMAN-BUSE LOAMS, 15 TO 25 PERCENT SLOPES	FORMAN	No					
	BUSE AASTAD RENSHAW	No No No	 	 	 	 	
	SIOUX VALLERS FLOM	No Yes Yes	flood plain	2B3 2B3	YES YES	NO NO	NO NO
Fhe: FORMAN-BUSE EXTREMELY STONY LOAMS, 9 TO 40 PERCENT SLOPES	PARNELL FORMAN	Yes No	pothole	3,2B3 	YES	NO 	YES
FERCENT SHOPES	BUSE AASTAD	No No					
	SIOUX VALLERS BARNES PARNELL	No Yes No Yes	flood plain pothole	2B3 2B3,3	YES YES	NO NO	NO YES
Had: Hattie CLAY LOAM, 9 TO 15 PERCENT SLOPES	HATTIE	No					
Ho E ·	PEEVER AASTAD	No No					
HaE: HATTIE CLAY LOAM, 15 TO 40 PERCENT SLOPES	HATTIE	No					
HbB:	PEEVER AASTAD LADELLE	No No No	 	 		 	
HEIMDAL-SISSETON LOAMS, 2 TO 6 PERCENT SLOPES	SISSETON	No					
	SVEA TONKA VALLERS HEIMDAL	No Yes Yes No	pothole flood plain	2B3,3 2B3	YES YES	NO NO	 YES NO
HbC: HEIMDAL-SISSETON LOAMS, 6 TO 9	HEIMDAL	No					
PERCENT SLOPES	SISSETON SVEA TONKA VALLERS	No No Yes Yes	 pothole flood plain	 2B3,3 2B3	 YES YES	 NO NO	 YES NO

Management and				H	Mydric soils	criteria	
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	
HcA:							
HEIMDAL-SVEA LOAMS, 0 TO 2 PERCENT SLOPES	HEIMDAL	No					
	SVEA	No					
	POINSETT	No					
	TONKA	Yes	pothole	2B3,3	YES	NO	YES
	VALLERS	Yes	flood plain	2B3	YES	NO	NO
HcB: HEIMDAL-SVEA LOAMS, 2 TO 6 PERCENT SLOPES	HEIMDAL	No					
10 0 IERCENI BEGIES	SVEA	No					
	BARNES	No					
	PARNELL	Yes	pothole	2B3,3	YES	NO	YES
	SISSETON	No					
	TONKA	Yes	pothole	2B3,3	YES	NO	YES
	VALLERS	Yes	flood plain	2B3	YES	NO	NO
La:				-		1	
LADELLE SILT LOAM	LADELLE	No					
	CASTLEWOOD	Yes	flood plain	2B3	YES	NO	NO
	PLAYMOOR	Yes	flood plain	2B3	YES	NO	NO
Lb:			1				
LADELLE SILT LOAM, CHANNELED	LADELLE	No					
	AASTAD	No					
	MARYSLAND	Yes	flood plain	2B3	YES	NO	NO
	SVEA	No					
	FORMAN	No					
	PLAYMOOR	Yes	flood plain	2B3	YES	NO	NO
	RAUVILLE	Yes	flood plain	2B3,4	YES	YES	NO
Lc:							
LUDDEN SILTY CLAY	LUDDEN	Yes	flood plain	2B3,3,4	YES	YES	YES
	PARNELL	Yes	pothole	2B3,3	YES	NO	YES
	PLAYMOOR	Yes	flood plain	2B3	YES	NO	NO
Lp:	I A DDATDIO	NT -					
LA PRAIRIE LOAM	LA PRAIRIE	No					I
	CASTLEWOOD	Yes	flood plain	2B3 2A	YES	NO	NO
	LAMOURE ARVILLA	Yes No	flood plain	2A	YES	NO 	NO
M-M:	VV. A TITIN	INO	_			_	
MISCELLANEOUS WATER	MISCELLANEOU						
TIECHILIM COO WAIER	S WATER						
MaE:	> 111111111						
MADDOCK LOAMY FINE SAND, 6 TO 25	MADDOCK	No					
PERCENT SLOPES	 ADMITT T A	NT-					
	ARVILLA	No					
	HEIMDAL SIOUX	No No					
Mb:	PIOOV	No					
MARYSLAND LOAM	MARYSLAND	Yes	flood plain	2B3	YES	NO	NO
HANT DUMIN HOME	DIVIDE	No			1 1 1 2	NO	NO
	RAUVILLE	Yes	flood plain	4,2B3	YES	YES	NO
Da:	YYO A TTTE	162	TIOOU PIAIII	7,400	1 120	150	INO
Ju ·	OVERLY	No					
OVERLY SILTY CLAY		l					
OVERLY SILTY CLAY LOAM		No.					
	BEARDEN PEEVER	No No		 		 	

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Man manhal and				H	ydric soils	criteria	
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	
Pa:				2 072			,,,,,
PARNELL SILTY CLAY LOAM	PARNELL	Yes	pothole	3,2B3	YES	NO	YES
Pb:	VALLERS 	Yes	flood plain	2B3	YES	NO	NO
SOUTHAM SILTY CLAY	SOUTHAM	Yes	pothole	3,2B3	YES	NO	YES
PcA:	VALLERS	Yes	flood plain	2B3	YES	NO	NO
PEEVER CLAY LOAM, 0 TO 2 PERCENT SLOPES	PEEVER	No					
	CAVOUR FORMAN	No No					
	RENTILL	No					
	SWENODA TONKA	No Yes	 pothole	2B3,3	YES	NO	YES
PcB: PEEVER CLAY LOAM, 2 TO 6 PERCENT SLOPES	PEEVER	No					
TO U TEMODINI DEGLED	AASTAD	No					
	FORMAN RENTILL	No No					
	CAVOUR	No					
	PARNELL TONKA	Yes Yes	pothole pothole	3,2B3 3,2B3	YES YES	NO NO	YES YES
PcC: PEEVER CLAY LOAM, 6 TO 9 PERCENT SLOPES	PEEVER	No					
10 9 PERCENT SLOPES	AASTAD	No					
	HATTIE TONKA	No Yes	 pothole	3,2B3	YES	NO	YES
Pd:	TONKA	165	pochore	3,263	IES	I NO	IES
PEEVER-CAVOUR COMPLEX		No					
	CAVOUR FORMAN	No No					
	SWENODA	No					
D - •	TONKA	Yes	pothole	3,2B3	YES	NO	YES
Pe: PEEVER-TONKA COMPLEX	PEEVER	No					
	TONKA	Yes	pothole	3,2B3	YES	NO	YES
	CAVOUR	No					
	FORMAN VALLERS	No Yes	flood plain	2B3	YES	NO	NO
Pf: ORTHENTS, GRAVELLY	ORTHENTS,	No					
	PLAYMOOR	Yes	flood plain	2B3	YES	NO	NO
LOAM	LADELLE	No					
	LUDDEN VALLERS	Yes Yes	flood plain flood plain	2B3,3,4 2B3	YES YES	YES NO	YES NO
Po:			_				
POINSETT SILT LOAM	POINSETT WAUBAY BADGER	No No Yes	 flood plain	 2A	 YES	 NO	 NO
Ra: RAUVILLE SILTY CLAY	RAUVILLE	Yes	flood plain	4,2B3	YES	YES	NO
LOAM	MARYSLAND VALLERS	Yes Yes	flood plain flood plain	2B3 2B3	YES YES	NO NO	NO NO

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				1	Hydric soils	criteria	
Map symbol and map unit name	Component	Hydric		Hydric criteria code	Meets saturation criteria	Meets flooding criteria	
RbA:							
RENSHAW LOAM, 0 TO 2 PERCENT SLOPES	RENSHAW	No					
	FORDVILLE	No					
	RENTILL SIOUX	No No					
RbB:	DIVIDE	No					
RENSHAW LOAM, 2 TO 6 PERCENT SLOPES	RENSHAW	No					
	FORDVILLE SIOUX	No No					
	DIVIDE	No					
RcD: RENSHAW-SIOUX COMPLEX, 6 TO 15 PERCENT SLOPES	RENSHAW	No					
PERCENT SLOPES	SIOUX	No					
RdE:	FORDVILLE	No					
RENSHAW-SIOUX EXTREMELY STONY COMPLEX, 6 TO 40 PERCENT SLOPES	RENSHAW	No					
THROBINI BHOTHS	SIOUX FORDVILLE	No No					
ReA: RENTILL LOAM, 0 TO 2 PERCENT SLOPES	RENTILL	No					
TERCERT BEGTES	FORDVILLE	No					
	PEEVER RENSHAW	No No					
G- F.	TONKA	Yes	pothole	2B3,3	YES	NO	YES
SaE: SIOUX-RENSHAW COMPLEX, 15 TO 40 PERCENT SLOPES	SIOUX	No					
TERCENT BEGLES	RENSHAW	No					
SbE:	FORDVILLE	No					
SISSETON LOAM, 15 TO 40 PERCENT SLOPES	SISSETON	No					
	HEIMDAL SVEA	No No					
ScD: SISSETON-HEIMDAL LOAMS, 9 TO 15 PERCENT SLOPES	SISSETON	No					
	HEIMDAL RENSHAW SIOUX SVEA	No No No No	 	 		 	
	TONKA VALLERS	Yes Yes	pothole flood plain	2B3,3 2B3	YES YES	NO NO	YES NO
Sd: SVEA LOAM	 SVEA HEIMDAL	No No				 	
	FLOM TONKA	Yes Yes	flood plain pothole	2B3 3,2B3	YES YES	NO NO	NO YES

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Man gymbol and				Н	ydric soils	criteria	
Map symbol and map unit name	Component	Hydric		Hydric criteria code	Meets saturation criteria	Meets flooding criteria	
SeA: SWENODA FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	SWENODA	No					
020120	EGELAND PEEVER TONKA	No No Yes	 pothole	 3,2B3	 YES	 NO	 YES
Ta: TONKA SILT LOAM	TONKA VALLERS	Yes Yes	pothole flood plain	2B3,3 2B3	YES YES	NO NO	YES NO
Va: VALLERS LOAM	VALLERS PARNELL TONKA	Yes Yes Yes	flood plain pothole pothole	2B3 2B3,3 2B3,3	YES YES YES	NO NO NO	NO YES YES
Vb: VALLERS-PARNELL COMPLEX	VALLERS	Yes	flood plain	2B3	YES	NO	NO
00.11 2211	PARNELL FLOM TONKA	Yes Yes Yes	pothole flood plain pothole	3,2B3 2B3 3,2B3	YES YES YES	NO NO NO	YES NO YES
Vc: VALLERS-TONKA COMPLEX	VALLERS TONKA FLOM PARNELL	Yes Yes Yes Yes	flood plain pothole flood plain pothole	2B3 3,2B3 2B3 3,2B3	YES YES YES YES	NO NO NO NO	NO YES NO YES
VdD: VIENNA-BUSE COMPLEX, 9 TO 15 PERCENT SLOPES	VIENNA	No					
SHOPES	BUSE LISMORE VALLERS	No No Yes	 flood plain	 2B3	 YES	 NO	 NO
VeA: VIENNA-LISMORE SILT LOAMS, 0 TO 2	VIENNA	No					
PERCENT SLOPES	LISMORE BROOKINGS TONKA VALLERS	No No Yes Yes	 pothole flood plain	 3,2B3 2B3	 YES YES	 NO NO	 YES NO
VeB: VIENNA-LISMORE SILT LOAMS, 1 TO 6	VIENNA	No					
PERCENT SLOPES	LISMORE BARNES BROOKINGS FORMAN TONKA VALLERS	No No No No Yes Yes	 pothole flood plain	2B3,3 2B3	 YES YES	 NO NO	 YES NO
VeC: VIENNA-LISMORE SILT LOAMS, 3 TO 9 PERCENT SLOPES	VIENNA	No					
I DICENT SHOPES	LISMORE BUSE VALLERS	No No Yes	 flood plain	 2B3	 YES	 NO	 NO
W: WATER	WATER	Unrank ed					

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Map symbol and				Н	ydric soils	criteria	
map unit name	Component	Hydric	landform	Hydric criteria code	Meets saturation criteria		

FOOTNOTE: There may be small areas of included soils or miscellaneous areas that are significant to use an management of the soil; yet are too small to delineate on the soil map at the map's original scale. These may be designated as spot symbols and are defined in the published Soil Survey Report or the USDA-NRCS Technical Guide, Part II.

Areas mapped as water or any map unit that contains one of the following conventional symbols is considered a hydric soil map unit: marshes or swamps; wet spots; depressions; streams, lakes and ponds.

- 1. All Histosols except Folists, or
- 2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:
 - a. Somewhat poorly drained with a water table equal to 0.0 foot (ft) from the surface during the growing season, or
 - b. poorly drained or very poorly drained and have either:
 - (1) water table equal to 0.0 ft during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches (in),
 - or for other soils
 - (2) water table at less than or equal to 0.5 ft from the surface during the growing season if permeability is equal to or greater than 6.0 in/hour (h) in all layers within 20 in, or
 - (3) water table at less than or equal to 1.0 ft from the surface during the growing season if permeability is less than 6.0 in/h in any layer within 20 in, or
- 3. Soils that are frequently ponded for long duration or very long duration during the growing season, or
- 4. Soils that are frequently flooded for long duration or very long duration during the growing